

Submission Date	2019-01-17
Project Name	EZ Tracker
Student Name	Ryan Maynard, Jonas Gamao, Delroy Christie
Project repository	<a href="https://github.com/YamiYukiSenpai/EZTracker">https://github.com/YamiYukiSenpai/EZTracker</a>
Sensor/effector choice	SSD1306 Monochrome OLED, MPR121 12-Point Capacitive Touch Sensor, and LSM303 Accelerometer & Magnetometer
The database will store	Step Count, Calories, Weight, Age, Height, Date of Birth, Name, E-mail
The mobile device functionality will include	View calories burned, steps, and direction through the SSD1306 OLED. Toggle start/stop/pause with the MPR121 Touch Sensor. Collect and interpret data with LSM303 Accelerometer & Magnetometer.
I will be collaborating with the following company/department	School of Media Studies & Information Technology, School of Hospitality, Recreation, and Tourism.
My group in the winter semester will include	Ryan Maynard, Jonas Gamao, Delroy Christie
50 word problem statement	Simplifying the current pedometer for the aging generation looking to get healthy. Most older users are turned off by complex devices and UIs. Being able to monitor their own health by implementing a simple and user-friendly interface can lead to a more active lifestyle.
100 words of background	Pedometers/wearable/portable technology is used everywhere. With the baby boomers becoming an aging population, and with health concerns on the rise, this easy to use system can promote a healthier lifestyle with the added ease of use. By using IoT/Cloud software, users can track their usage and compare it over days/weeks/months to ensure they are getting the exercise needed.
Current product APA citation	KNOW YOURSELF TO IMPROVE YOURSELF. (n.d.). Retrieved from <a href="https://www.fitbit.com/en-ca/home">https://www.fitbit.com/en-ca/home</a>
Existing research IEEE paper APA citation	Genovese, V., Mannini, A., & Sabatini, A. M. (2017). A Smartwatch Step Counter for Slow and Intermittent Ambulation. IEEE Access, 5, 13028-13037. doi:10.1109/access.2017.2702066
Brief description of planned purchases	Stacking Headers, Case Revisions
Solution description	A user friendly, Cloud/IoT based pedometer to monitor health for the technologically inexperienced aging population.